Laser Safety Information

This drive employs a laser. Do not remove the cover or attempt to service this device when connected due to the possibility of eye damage.

CAUTION

The use of controls or adjustments or performance of procedures other than those specified herein may
result in hazardous radiation exposure.

Laser Specification:

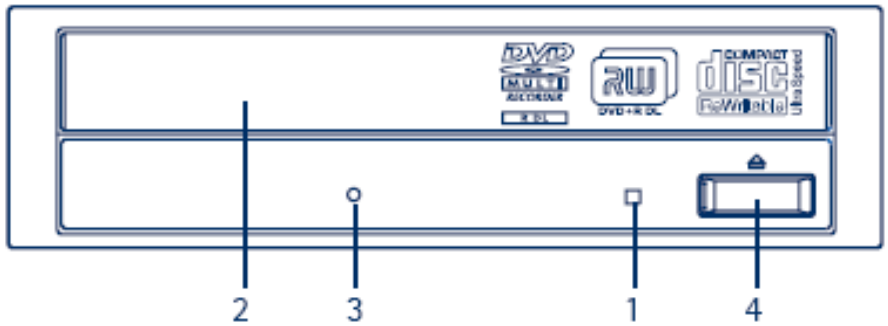
Semiconductor Laser:
121mW, 780-788nm; 109mW, 652-663nm

Disposal of Old Electrical & Electronic Equipment

(Applicable in the EU and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potentially negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Part Names and Functions



1. Busy Indicator

This indicator lights during data read and write operation.

2. Tray Panel

This panel prevents dust from entering the Optiarc Writer and opens automatically when the Load/Eject button is pushed.

3. Emergency Eject Hole

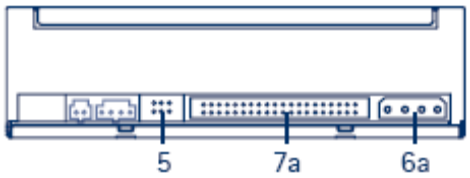
Use to remove the disc from the DVD Writer if the electrical eject is disabled by software or if power failure occurs. *(see „Emergency Eject“ for details)*

4. Load/ Eject Button

This button is pressed to eject or retract the disc tray when the power is on.

Rear View

Rear View P-ATA (A)



5 Jumper Block

These blocks of jumper set the configuration for the DVD Writer *(ref. chapter 'Installation of P-ATA drive's Jumper Setting' for details).*

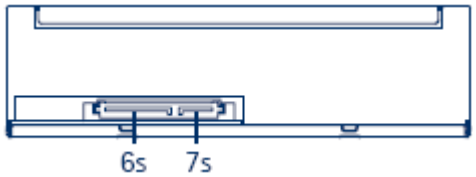
6a Power Connector (P-ATA)

Use this to provide operating power from the host computer.

7a I/O BUS Connector (P-ATA)

This BUS connector is used to control the DVD Writer and data transmission. Use a flat ribbon cable to connect your computer to the DVD Writer.

Rear View S-ATA(S)



6s Power Connector (S-ATA)

Use this to provide operating power from the host computer.

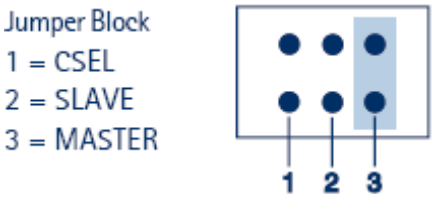
7s I/O BUS Connector (S-ATA)

This BUS connector is used to control the DVD Writer and data transmission.

Installation of P-ATA drives

Jumper Setting

A jumper consists of a pair of pins and a connector, which fits over the pins. When the connector is in place it establishes an electronic link between the pins, which enables the function being controlled by the jumper. If the connector is removed, the electronic link is disconnected and the function is disabled. Jumpers are used to set the DVD Writer mode on the interface.



The factory default setting is MASTER for fitting to enhanced IDE controllers supporting two ports, one for the hard disk and one for a DVD Writer. If you prefer to connect the DVD Writer to the same port as your hard disc, (as a secondary device) you have to change jumper setting to SLAVE mode.

Installing the DVD Writer in a host PC (P-ATA)

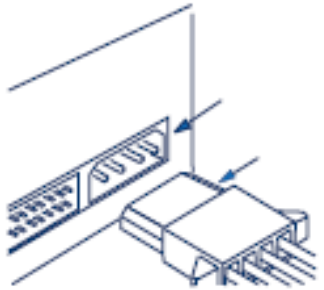
1. Turn off the computer, other peripherals and unplug all the cords and cables. Then remove the computer cover, face plate, mounting clips, and keeper bracket. Refer to the operating guide that came with your computer for help with this step.

2. If necessary, remove other devices above the installation, approximately 50 ~70 mm (2 ~ 3 in.), but do not disconnect the cables.

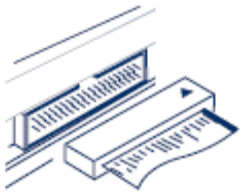
3. Slide the DVD Writer into the computer until it is out approximately 50 ~ 70 mm (2 ~ 3 in.).

4. Locate a spare power cable in your computer.

5. Connect that power cable to the power connector on the back of the DVD Writer.



6. Connect the I/O BUS connector on the DVD Writer and the IDE controller. Connect the Coloured stripe side of the cable on the side marked with the arrow (V).



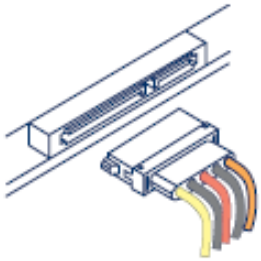
7. Slide the DVD Writer into the computer and fix it in the computer cabinet with 4 screws.
To avoid damage to the DVD Writer take care that the screws do not reach more than 5 mm into the DVD Writers cabinet.

8. Replace the mounting clips, keeper bracket, and computer cover. Refer to the operation guide that came with the computer for help with this step.

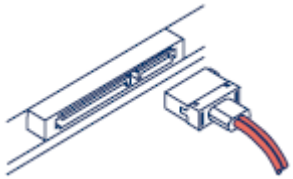
Installation of S-ATA drives

1. Turn off the computer, other peripherals and unplug all the cords and cables. Then remove the computer cover, face plate, mounting clips, and keeper bracket. Refer to the operation guide that came with your computer for help with this step.

2. Slide the DVD Writer into the computer until it is out approximately 50 ~ 70 mm.
3. Locate a spare power cable in your computer and connect it to the power connector on the back of the DVD Writer.



4. Connect the S-ATA data connector on the DVD Writer and the S-ATA controller.
To avoid transmission errors please do not use S-ATA cable longer than 50 cm.



5. Slide the DVD Writer into the computer and fix it in the computer cabinet with 4 screws.
To avoid damage to the DVD Writer take care that the screws do not reach more than 5 mm into the DVD Writers cabinet.

6. Replace the mounting clips, keeper bracket, and computer cover. Refer to the operation guide that came with the computer for help with this step.

Driver Installation

The software installation starts by activating the reading function of the drive (CD-ROM). If you are using the DVD Writer with Windows 95/98/ME/NT/ 200x/XP/Vista or IBM OS/2 Warp, all necessary drivers will be loaded automatically by the operating system.
Drivers mentioned above are part of the Operating Systems and not available from Sony Optiarc.

For S-ATA drives: Your computer's S-ATA connection must support the ATAPI command set. Some computer motherboards have S-ATA RAID chipsets and/or a BIOS that do not support the ATAPI command set used by optical disc drives. If you are unsure, consult your motherboard manual or vendor web site for compatibility, BIOS versions and BIOS settings.

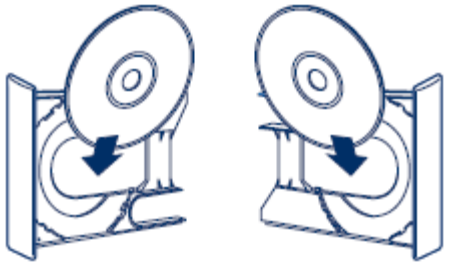
This drive supports RPC according to SFF8090v4 (RPC-2). The final setting /definition of the video region code is determined by the fifth DVD video region code change.

For Windows 3.xx don't use the 32 bit hard disk access, because this mode is not supported for DVD drives.

If the reading function is available the next step will be to install a writing/burning software (Not supplied with this drive). Please insert your writing software CD-ROM into the DVD Writer and use the information provided with the software (if the installation does not start automatically you have to activate the software installation manually)

Vertical Use

The DVD Writer can be used in the vertical position. When using the DVD Writer, in the vertical position, load and unload discs as shown on the diagram below.



Only 12 cm discs can be used when the DVD Writer is installed vertically. Do not place 8cm discs in the tray when using the DVD Writer installed in this way.

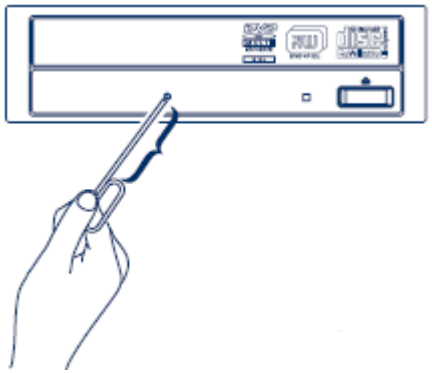
Emergency Eject

The procedure described below can be used to open the tray of the DVD Writer if the EJECT button is disabled by software or a power failure occurs.

1. Turn off the power to the DVD Writer/PC.

2. If a disc inside is still spinning wait until it stops.

3. Insert a steel rod (about 1.3 mm in diameter) into the emergency eject hole and push firmly until the cartridge is ejected. A stiff paper clip may be used as steel rod.



Support

For further information, various downloads and hotline support please visit our Website:
http://www.sony-optiarc.eu

AD-5200A/S Operating Instructions

Data Section

Tranfer Rate	READ	DVD-ROM	9-22 Mbytes/sec (6.6-16x CAV)
		DVD-R	9-22 Mbytes/sec (6.6-16x CAV)
		DVD+R	9-22 Mbytes/sec (6.6-16x CAV)
		DVD-R DL	6.9-16.6 Mbytes/sec (5-12x CAV)
		DVD+R9	6.9-16.6 Mbytes/sec (5-12x CAV)
		DVD-RW	7.3-17.5 Mbytes/sec (5-13x CAV)
		DVD+RW	7.3-17.5 Mbytes/sec (5-13x CAV)
		DVD-RAM	./.
		CD-ROM, CD-R	3000-7200 Kbytes/sec (20-48x CAV)
		CD-RW, CD-ROM XA	2550-6000 Kbytes/sec (17-40x PCAV)
		CD-DA	2550-6000 Kbytes/sec (17-40x PCAV)
	WRITE	DVD+R	11.4-27.5 Mbytes/sec (20x)
		supported speeds	20x/18x/16x/12x/8x/6x/4x/2.4x
		DVD+R9	5.5-11 Mbytes/sec (8x)
		supported speeds	8x/6x/4x/2.4x
		DVD+RW	5.5-11 Mbytes/sec (8x)
		supported speeds	8x/6x/4x/2.4x
		DVD-R	11.4-27.5 Mbytes/sec (20x)
		supported speeds	20x/18x/16x/12x/8x/6x/4x/2x
		DVD-R DL	6.9-16.6 Mbytes/sec (12x)
		supported speeds	12x/8x/6x/4x/2x
		DVD-RW	8.2 Mbytes/sec (6x)
		supported speeds	6/x4x/2x/1x
		DVD-RAM	./.
		supported speeds	
		CD-R	3000-7200 Kbytes/sec (48x)
		supported speeds	48x/40x/32x/24x/16x/8x
		CD-RW	3000-4800 Kbytes/sec (32x)
		supported speeds	32x/24x/16x/10x/4x
Write methods		DAO (disc at once), SAO (session at once), TAO (track at once) with zero gap, variable or fixed packet, multisession	
Access Time		DVD-ROM (1/3 stroke read, average)	160 msec
		CD-ROM (1/3 stroke read, average)	140 msec
Compatibility		DVD-ROM,DVD-Video, DVD±DL, DVD±RW, High Sierra and ISO9660, CD-ROM, CD-ROM XA, CD-DA, CD-TEXT, CD-I (FMV), Enhanced Music CD (CD+), PhotoCD (SingleSession/MultiSession), VideoCD (WhiteBook)	
In compliance with		MultiRead, PC-2001, MS Vista	

General

Memory Buffer		2 MBytes
Interface	AD-5200S	Serial ATA , max. 150 MByte/sec
	AD-5200A	IDE/Atapi, max 66 Mbytes/sec
Power Consumption		max. 31.5 VA , 5V 1.5A: 12V 2A
Dimensions (W x H x D)		148x42x170 mm
Weight		0.6 kg
Noise		47.5dB(A)
Storage temperature and humidity		-40° to 65° C, 5% to 95% RH, noncondensing
Operating temperature and humidity		5° to 50° C, 20% to 80% RH, noncondensing
Direct Label Print	./.	

Above specifications are subject to change. Microsoft, Windows, and Windows Vista are registered trademarks Microsoft Corporation, Photo CD is a trademark of Kodak.